

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Docket Number (Optional)

BAY136/4-010

Application Number

09/122,384

Applicant(s)

ELLEDGE ET AL.

Filing Date

JULY 24, 1998

Group Art Unit

1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MM	A1	4,673,640	06/16/87	Backman	—	—	
MM	A2	4,743,546	05/10/88	Backman, et al.	—	—	
MM	A3	4,959,317	09/25/90	Sauer	—	—	duplicate
MM	A4	5,227,288	07/13/93	Blattner	—	—	
MM	A5	5,354,668	10/11/94	Auerbach	—	—	
MM	A6	5,434,066	07/18/95	Bebee, et al.	—	—	
MM	A7	5,470,727	11/28/95	Mascarenhas, et al.	—	—	
MM	A8	5,591,609	01/07/97	Auerbach	—	—	
MM	A9	5,614,389	03/25/97	Auerbach	—	—	
MM	A10	5,635,381	06/03/97	Hooykaas, et al.	—	—	
MM	A11	5,658,772	08/19/97	Odell, et al.	—	—	

FOREIGN PATENT DOCUMENTS

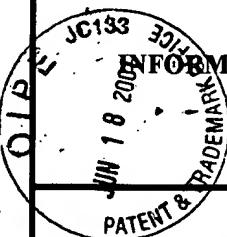
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MM	B1 EP 0160571	11/06/85	Europe	—	—		
MM	B2 EP 0300422	01/25/89	Europe	—	—		
MM	B3 WO 91/02801	03/07/91	PCT	—	—		
MM	B4 WO 91/16427	10/31/91	PCT	—	—		
MM	B5 WO 92/20791	11/26/92	PCT	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MM	C1	Abremski and Gottesman, "Purification of the Bacteriophage $\lambda$ xis Gene Product Required for $\lambda$ Excisive Recombination", THE JOURNAL OF BIOLOGICAL CHEMISTRY, 257(16):9658-62, 1982
MM	C2	Abremski and Hoess, "Bacteriophage P1 Site-specific Recombination", THE JOURNAL OF BIOLOGICAL CHEMISTRY, 259(3):1509-14, 1984

EXAMINER	DATE CONSIDERED
MM	10/4/01

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M	A12	5,677,170	10/14/97	Devine, et al.	_____	_____	
	A13	5,677,177	10/14/97	Wahl, et al.	_____	_____	
	A14	5,710,248	01/20/98	Grose	_____	_____	
	A15	5,723,765	03/03/98	Oliver, et al.	_____	_____	
	A16	5,733,733	03/31/98	Auerbach	_____	_____	
	A17	5,733,743	03/31/98	Johnson	_____	_____	
	A18	5,744,336	04/28/98	Hodges, et al.	_____	_____	
	A19	5,766,891	06/16/98	Shuman	_____	_____	
	A20	5,776,449	07/07/98	Baum	_____	_____	
	A21	5,830,707	11/03/98	Bushman	_____	_____	
M	A22	5,837,242	11/17/98	Holliger, et al.	_____	_____	

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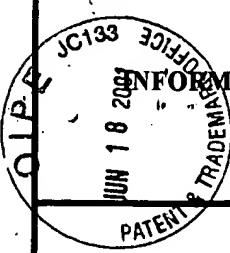
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B6	WO 93/15191	08/05/93	PCT	_____	_____	_____	_____
M	B7 WO 93/19172	09/30/93	PCT	_____	_____	_____	_____
	B8 2,141,412	02/17/94	Canada	_____	_____	_____	_____
	B9 WO 94/17176	08/04/94	PCT	_____	_____	_____	_____
M	B10 WO 95/00555	01/05/95	PCT	_____	_____	_____	_____

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M	C3	Abremski, et al., "Bacteriophage P1 Cre-LoxP Site-specific Recombination", THE JOURNAL OF BIOLOGICAL CHEMISTRY, 261(1):391-96, 1986
	C4	Abremski, et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products following Recombination", CELL, 32:1301-11, 1983

EXAMINER	DATE CONSIDERED
Remy Yreal	10/5/01

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<i>MM</i>	A23	5,843,772	12/01/98	Devine, et al.	—	—	
	A24	5,851,808	12/22/98	Elledge, et al.	—	—	<i>duplicate</i>
<i>MM</i>	A25	5,858,657	01/12/99	Winter, et al.	—	—	
<i>MM</i>	A26	5,871,907	02/16/99	Winter, et al.	—	—	
<i>MM</i>	A27	5,874,259	02/23/99	Szybalski	—	—	
	A28	5,888,732	03/30/99	Hartley, et al.	—	—	<i>duplicate</i>
<i>MM</i>	A29	5,916,804	06/29/99	Bushman	—	—	
<i>MM</i>	A30	5,919,676	07/06/99	Graham, et al.	—	—	
<i>MM</i>	A31	5,928,914	07/27/99	Leboulch, et al.	—	—	
<i>MM</i>	A32	5,989,872	11/23/99	Luo, et al.	—	—	
<i>JF</i>	A33	6,010,884	01/04/00	Griffiths, et al.	—	—	

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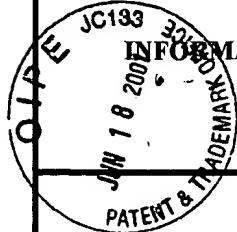
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<i>MM</i>	B11	WO 97/06265	02/20/97	PCT	—	—		
	B12	WO 97/09436	03/13/97	PCT	—	—		
	B13	WO 97/25446	07/17/97	PCT	—	—		
	B14	WO 97/32481	09/12/97	PCT	—	—		
<i>MM</i>	B15	WO 98/10086	03/12/98	PCT	—	—		

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

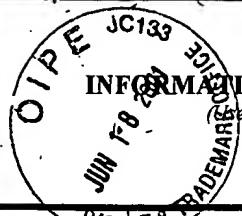
<i>MM</i>	C5	Adams, et al., "Cre-lox Recombination in <i>Escherichia coli</i> Cells", J. MOL. BIOL., 226(3):661-73, 1992
<i>MM</i>	C6	Andrews, et al., "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences", CELL, 40(4):795-803, 1985

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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
or	A34	6,040,430	03/21/00	Stewart	_____	_____	
	A35	6,063,627	05/16/00	McVey, et al.	_____	_____	
	A36	5,348,886	09/20/94	Lee, et al.	_____	_____	
	A37	6,143,557	11/07/00	Hartley, et al.	_____	_____	
	A38	6,171,861	01/09/01	Hartley, et al.	_____	_____	
	A39	5,286,632	02/15/94	Jones	_____	_____	
	A40	5,334,375	08/02/94	Nabi, et al.	_____	_____	
	A41	5,650,308	07/22/97	Baum	_____	_____	
	A42	5,728,551	03/17/98	Devine, et al.	_____	_____	
	A43	5,334,575	08/02/94	Noonan, et al.	_____	_____	
or	A44	5,650,557	07/22/97	Hannah, et al.	_____	_____	
<b>FOREIGN PATENT DOCUMENTS</b>							
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							YES
or	B16	WO 94/09127	04/28/94	PCT	_____	_____	
or	B17	WO 98/53056	11/26/98	PCT	_____	_____	✓
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
or	C7	Andrews, et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2μm Plasmid with Mutated Target Sequences", MOLECULAR AND CELLULAR BIOLOGY, 6(7):2482-89, 1986					
or	C8	Anton and Graham, "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: A Molecular Switch for Control of Gene Expression", JOURNAL OF VIROLOGY, 69(8):4600-06, 1995					
EXAMINER <i>benyf</i>				DATE CONSIDERED <i>10/15/01</i>			
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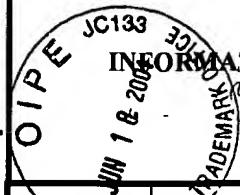
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-	OR C9	Araki, et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1", J. MOL. BIOL., 225:25-37, 1992
OR	C10	Argos, et al., "The integrase family of site-specific recombinases: regional similarities and global diversity", THE EMBO JOURNAL, 5(2):433-440, 1986
OR	C11	Astumian, et al., "Site-Specific Recombination between Cloned <i>attP</i> and <i>attB</i> Sites from the <i>Haemophilus influenzae</i> Bacteriophage HP1 Propagated in Recombination-Deficient <i>Escherichia coli</i> ", JOURNAL OF BACTERIOLOGY, 171(3):1747-1750, 1989
OR	C12	Atlung, et al., "A versatile method for integration of genes and gene fusions into the $\lambda$ attachment site of <i>Escherichia coli</i> ", GENE, 107:11-17, 1991
OR	C13	Ausubel, et al., "Current Protocols in Molecular Biology", Supplement 26, Boston, MA: John Wiley & Sons, Inc. (1995)
OR	C14	Ausubel, et al., "Current Protocols in Molecular Biology", Supplement 15, Boston, MA: John Wiley & Sons, Inc. (1995)
	C15	<del>Babineau, et al., "The FLP Protein of the 2-micron Plasmid of Yeast", THE JOURNAL OF BIOLOGICAL CHEMISTRY, 260(22):12313-19, 1985</del>
OR	C16	Balakrishnan, et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for <i>att</i> -Int-mediated rearrangement and <i>pL</i> expression vectors", GENE, 138:101-04, 1994
OR	C17	Bayley, et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site-specific recombination system", PLANT MOLECULAR BIOLOGY, 18:353-361, 1992
OR	C18	Bethke and Sauer, "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants", NUCLEIC ACIDS RESEARCH, 25(14):2828-34, 1997
OR	C19	Bernard and Couturier, "Cell Killing by the F Plasmid CcdB Protein Involves Poisoning of DNA-Topoisomerase II Complexes", J. MOL. BIOL., 226:735-45, 1992
OR	C20	Bernard, et al., "Positive-selection vectors using the F plasmid <i>ccdB</i> killer gene", GENE, 148:71-74, 1994

EXAMINER	DATE CONSIDERED
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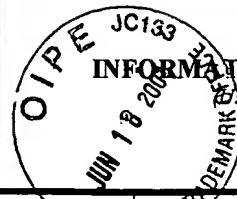
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INITIALS**
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

MM	C21	Betz, et al., "Bypass of lethality with mosaic mice generated by Cre- <i>loxP</i> -mediated recombination", CURRENT BIOLOGY, 6(10):1307-16, 1996
	C22	Bhandari and Gowrishankar, "An <i>Escherichia coli</i> Host Strain Useful for Efficient Overproduction of Cloned Gene Products with NaCl as the Inducer", JOURNAL OF BACTERIOLOGY, 179(13):4403-06, 1997
	C23	Black, "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs", GENE, 46:97-101, 1986
	C24	Bloch, et al., "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 223(1):104-11, 1996
	C25	Bochner, et al., "Positive Selection for Loss of Tetracycline Resistance", JOURNAL OF BACTERIOLOGY, 143(2):926-33, 1980
	C26	Boyd, "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids", NUCLEIC ACIDS RESEARCH, 21(4):817-21, 1993
	C27	Broach, et al., "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific", CELL, 29:227-34, 1982
	C28	Brunelli and Pall, "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and <i>cre</i> / <i>lox</i> -Mediated Plasmid Excision", YEAST, 9:1309-18, 1993
	C29	<del>Brunelli and Pall, "Lambda/Plasmid Vector Construction by <i>In Vivo</i> <i>cre</i>/<i>lox</i>-Mediated Recombination", BIOTECHNIQUES, 16(6):1061-64, 1994</del> <i>duplicate</i>
	C30	Bubeck, et al., "Rapid cloning by homologous recombination <i>in vivo</i> ", NUCLEIC ACIDS RESEARCH, 21(15):3601-02, 1993
	C31	Buchholz, et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs", NUCLEIC ACIDS RESEARCH, 24(15):3118-19, 1996
MM	C32	Buchholz, et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination", NUCLEIC ACIDS RESEARCH, 24(21):4256-62, 1996

**EXAMINER**
*Reviewed*
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*10/15/01*

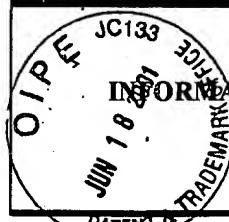
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<i>W</i>	C33	Burioni, et al., "An improved phage display vector for antibody repertoire cloning by construction for combinatorial libraries", RES. VIROL., 148:161-64, 1997
	C34	Bushman, et al., "Control of Directionality in Lambda Site Specific Recombination", SCIENCE, 230(4728):906-11, 1985
	C35	Campbell, "Chromosomal Insertion Sites for Phages and Plasmids", JOURNAL OF BACTERIOLOGY, 174(23):7495-99, 1992
	C36	Capone, "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells", MOLECULAR AND CELLULAR BIOLOGY, 6(9):3059-67, 1986
	C37	Chanock, "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases", INFECTIOUS AGENTS AND DISEASE, 2(3):118-31, 1993
	C38	Chapin, et al., "Differential Expression of Alternatively Spliced Forms of MAP4; A repertoire of Structurally Different Microtubule-Binding Domains", BIOCHEMISTRY, 34(7):2289-2301, 1995
	C39	Chatterjee and Coren, "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed <i>loxP</i> site", NUCLEIC ACIDS RESEARCH, 25(11):2205-12, 1997
	C40	Chong, et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element", GENE, 192:271-81, 1997
	C41	Cox, "The FLP protein of the yeast 2- $\mu$ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ", PROC. NATL. ACAD. SCI. USA, 80(14):4223-27, 1983
	C42	Craig and Nash, "The Mechanism of Phage $\lambda$ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase", CELL, 35(3):795-803, 1983
	C43	Dale and Ow, "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase", GENE, 91:79-85, 1990
<i>W</i>	C44	Dale and Ow, "Gene transfer with subsequent removal of the selection gene from the host genome", PROC. NATL. ACAD. SCI. USA, 88:10558-62, 1991

**EXAMINER**
*Henry C. Guzel*
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*10/9/01*

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W	C45	Dang and Perrimon, "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ", DEVELOPMENTAL GENETICS, 13:367-75, 1992
	C46	Davis, et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42</i> <sup>G12V</sup> and Dominant Negative <i>cdc42</i> <sup>D118A</sup> Mutations", THE JOURNAL OF BIOLOGICAL CHEMISTRY, 273(2):849-58, 1998
	C47	Degryse, "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions", GENE, 170(1):45-50, 1996
	C48	Derbyshire and Belfort, "Lightning strikes twice: Intron-intein coincidence", PROC. NATL. ACAD. SCI. USA, 95:1356-57, 1998
	C49	Devine and Boeke, "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis", NUCLEIC ACIDS RESEARCH, 22(18):3765-72, 1994
	C50	Diederich, et al., "New Cloning Vectors for Integration into the $\lambda$ Attachment Site <i>attB</i> of the <i>Escherichia coli</i> Chromosome", PLASMID, 28:14-24, 1992
	C51	Dymecki, "A modular set of <i>Flp</i> , <i>FRT</i> and <i>LacZ</i> fusion vectors for manipulating genes by site-specific recombination", GENE, 171(2):197-201, 1996
	C52	<del>Elledge, et al., "λ YES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations", PROC. NATL. ACAD. SCI. USA, 88:1731-35, 1991</del> <i>duplicate</i>
	C53	Esposito and Scocca, "The integrase family of tyrosine recombinases: evolution of a conserved active site domain", NUCLEIC ACIDS RESEARCH, 25(18):3605-14, 1997
	C54	Feil, et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 237(3):752-57, 1997
	C55	Ferguson, et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments", GENE, 16:191-97, 1981
W	C56	Fiering, et al., "An 'in-out' strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the $\beta$ -globin locus control region", PROC. NATL. ACAD. SCI. USA, 90:8469-73, 1993

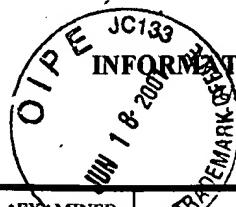
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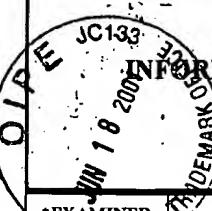
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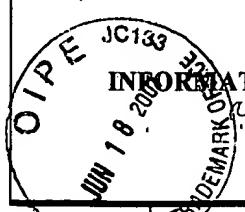

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**JULY 24, 1998**
**Group Art Unit**
**1636**
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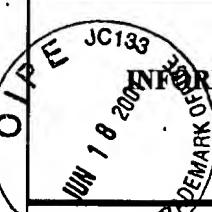
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Filing Date

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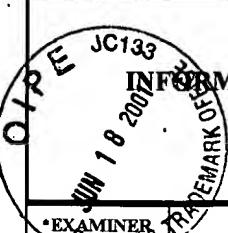
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Group Art Unit

**1636**

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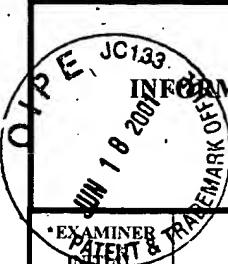
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Applicant(s)

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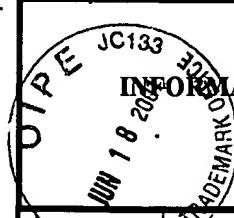
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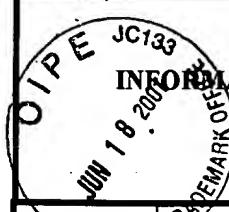
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Group Art Unit

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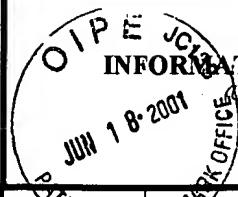
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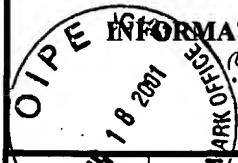
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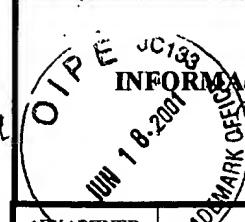
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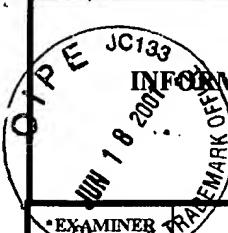
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